EN

Gas fired condensing boiler

C 310 ECO - C 610 ECO

User Guide

300015183-001-A

De Dietrich

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1 Introduction

1.1 Symbols used

Caution danger
Risk of injury and damage to equipment. Attention must be paid to the warnings on safety of persons and equipment.

Specific information
Information must be kept in mind to maintain comfort.

Reference
Refer to another manual or other pages in this instruction manual.

DHW: Domestic hot water

SMI: Integrated mixer system

1.2 Introduction

Congratulations on your choice of a high quality product. We strongly advise you to read the following instructions in order to guarantee the optimal operation of your appliance. We are sure that it will be entirely to your satisfaction and will meet with all of your expectations.

- Keep these instructions in a safe place close to the appliance.
- For a proper operating of the boiler, follow carefully the instructions.
- The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified fitter).
- In the interest of customers, De Dietrich Thermique SAS are continuously endeavouring to make improvements in product quality. All the specifications stated in this document are therefore subject to change without notice.
- Get your fitter to explain your installation to you.

2 Safety instructions and recommendations

2.1 Safety instructions

■ Fire hazard

Do not stock products of an inflammable nature close to the appliance.

If you smell gas, do not use a naked flame, do not smoke, do not operate electrical contacts or switches (doorbell, lights, motor, lift, etc.).

1. Cut the gas supply
2. Open the windows
3. Extinguish all flames
4. Evacuate the premises
5. Contact a qualified professional
6. Inform the gas supplier

■ Risk of intoxication

Do not obstruct the air inlets in the room (even partially).

In the event of flue gas emanation

1. Switch the appliance off
2. Open the windows
3. Evacuate the premises
4. Contact a qualified professional

■ Risk of being burnt

Avoid direct contact with the flame viewport.

Depending on the settings of the appliance:

- The temperature of the flue gas conduits may exceed 60°C
- The temperature of the radiators may reach 95°C
- The temperature of the domestic hot water may reach 65°C

■ Risk of damage

Do not stock chloride or fluoride compounds close to the appliance.

Install the appliance in frost-free premises.

Do not neglect to service the appliance: Contact a qualified professional or take out a maintenance contract for the annual servicing of the appliance.

2.2 Recommendations

Only qualified professionals are authorised to work on the appliance and the instalation.

Before any work, switch off the mains supply to the appliance.

Check regularly that the installation contains water and is pressurised.

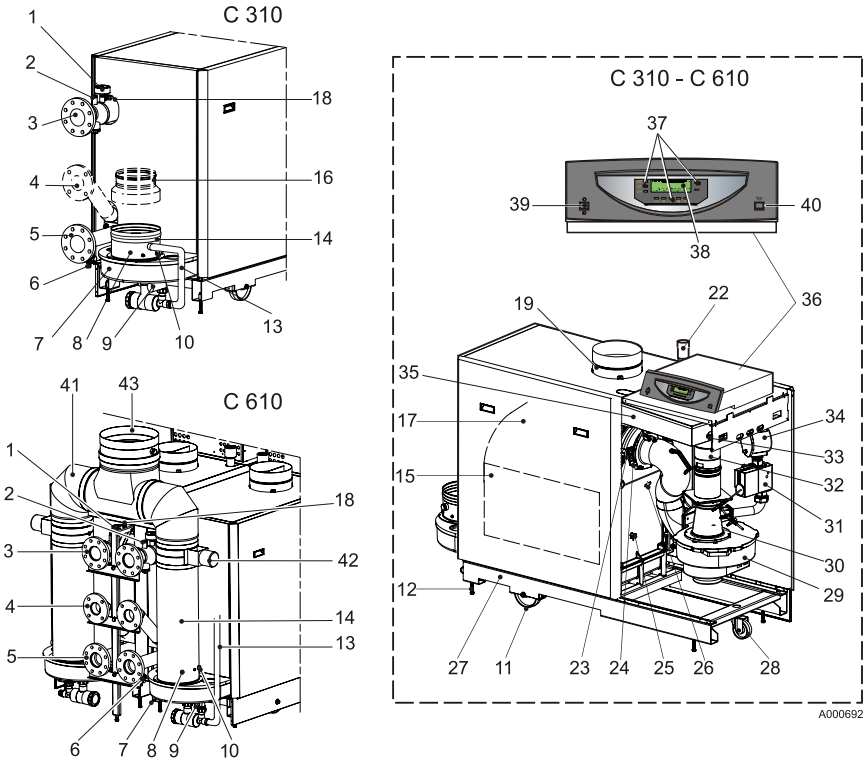
Keep the appliance accessible at all times.

Avoid draining the installation.

The appliance should be on Summer or Antrifreeze mode rather than switched off to guarantee the following functions:

- Antifreeze protection
- Protection against corrosion on domestic hot water tanks fitted with a titanium anode.

3 Description



The front of the boiler (with the inspection hatch for the heat exchanger) is the side from which it is serviced.

1. Pressure gauge

2. Sensor tube for outlet temperature sensor

3. Flow connection

4. Connection for second return (optional)

5. Return connection

6. Filling and emptying tap

7. Condensates collector

8. Combusted gas temperature sensor

9. Condensates discharge

10. Measurement point O_2/CO_2

11. Wheel

12. Setting bolt

13. Condensates evacuation pipe

14. Flue gas discharge duct

15. Inspection hatch

16. Reduction sleeve Ø250/Ø200 (Option)

17. Heat exchanger

18. Output sensor

19. Air intake

22. Gas connection

23. Flame inspection window

24. Ignition/ionisation electrode

25. Return sensor

26. Heating body sensor

27. Base frame

28. Pivoting castor

29. Fan

30. Venturi

31. Multivalve gas unit

32. Non-return valve

33. Differential air pressure switch

34. Gas filter

35. Air chamber

36. Control panel

37. Adjustment keys

38. Display screen

39. General ON ⏽ / OFF ◯ switch

40. Button

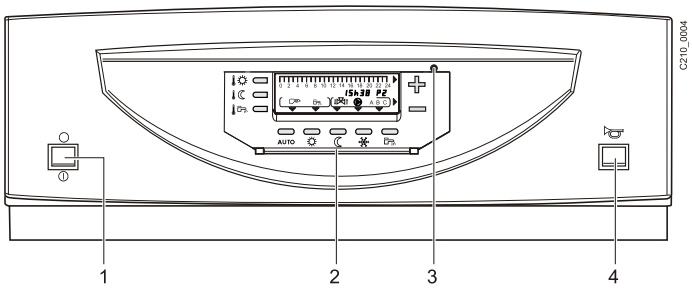
41. Combusted gas flue

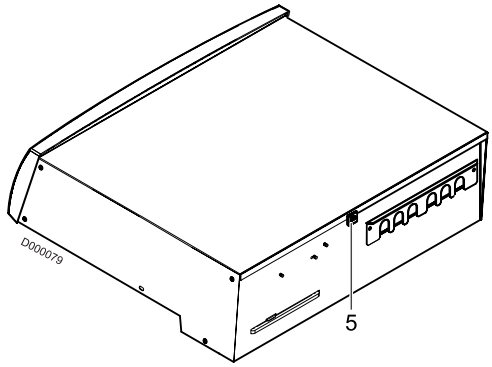
42. Combusted gas valve

43. Combusted gas discharge connection with an integrated condensates collection device

4 Use of the appliance

4.1 Control panel

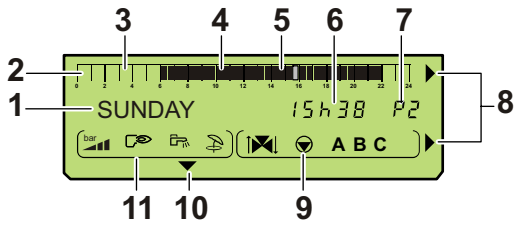




1. General ON ⏻ / OFF ◯ switch
   The control panel should always be switched on to take advantage of the heating pump anti-sticking function. It is preferable to use the "summer" mode for the period during which the heating is to be cut off.
   Furthermore, if an interactive remote control (CDI 2) is connected and the **1** switch is in the off ◯ position, there will be no display on the CDI 2.
2. **Access hatch for the settings and programme keys**
3. **On light / Alarm**
   - The red resetting button lights up when the burner is in the safety condition
   - The flashing red light signals a sensor error
4. **Reset button**
5. **Timed circuit breaker (4 A)**

A second protective function can be found on the safety control card.

4.2 Display

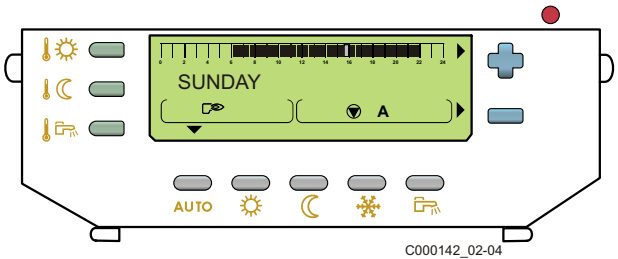


1	Text and numerical display
2	Graphic display bar for the programme in circuit A, B or C
3	Light area: Reduced temperature heating period or tank load disabled
4	Dark area: Comfort temperature heating period or tank load enabled
5	Flashing cursor showing the current time
6	Number display (current time, adjusted values, parameters, etc.)
7	Active programme display, P1, P2, P3, P4 or **E** : Summer mode activated
8	The arrows flash when setting values can be modified using the **+** and **-** keys

9	**Circuit operation symbols**
	Opening the 3-way valve
	Closing the 3-way valve
	Displayed circuit pump on
A B C	Name of the circuit displayed
10	Symbol displayed above the active operating mode
11	**Symbols indicating that the following inputs/outputs are active**
	Burner on
	DHW load pump on
	Summer mode
	Not available

4.3 Changing the settings

4.3.1 Keys accessible when the flap is closed



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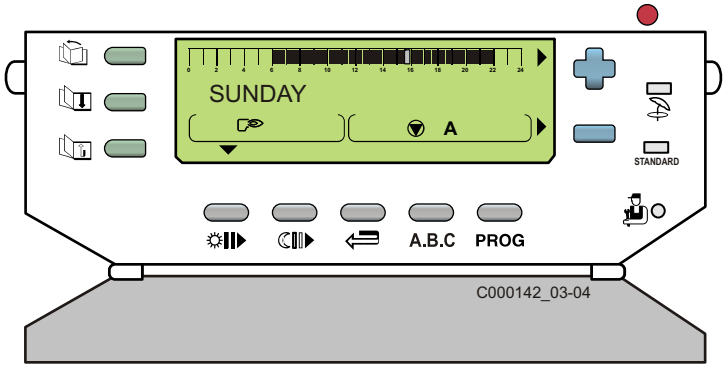
Temperature setting keys	
	Comfort temperature
	Reduced temperature
	Domestic hot water temperature
	Is used to adjust the selected temperature

Operating mode selection keys	
AUTO	Heating according to the time programme
	Forced Comfort mode: - until midnight if ▼ flashes - all the time if ▼ is steady
	Forced Low mode: - until midnight if ▼ flashes - all the time if ▼ is steady
	Antifreeze mode
	Tank load enabled mode

4.3.2 Keys accessible when the flap is open



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	Manual "Summer" shutdown key The heating is switched off and DHW production is ensured. The symbols and are displayed{E}.
STANDARD	"Standard" programme key Reset of all time programmes.
	Fitter settings access key

Key for access to setting and measurements	
	Page scrolling
	Line scrolling
	Back to the title or the previous line

Programming keys	
	Enter (per 1/2 hour) the comfort temperature period or tank load enabled (dark area)
	Enter (per 1/2 hour) the reduced temperature period or tank load disabled (light area)
	Return key
A.B.C	Circuit display selection key
PROG	Active heating programme selection key (P1, P2, P3 or P4)

4.4 Stopping the boiler

1. Deactivate the electricity supply to the boiler. In this way, any intergrated regulator is switched off.
2. Close the gas valve.

A boiler which is switched off is not protected against frost.

4.4.1 Precautions to take if there is a danger of frost

Heating circuit:
Use a correctly dosed antifreeze to prevent the heating water freezing. If this cannot be done, drain the system completely. In all cases, consult the fitter.

Domestic hot water circuit:
Drain the domestic water tank and pipes.

4.4.2 Precautions to take in the event of prolonged shutdown (one year or more)

- Close the gas valve
- The boiler and the chimney must be swept carefully.
- Close the door of the boiler to prevent the internal circulation of air.

4.5 Commissioning the boiler

4.5.1 Commissioning

Before filling it with water for the first time, rinse the installation and eliminate solder pearls, metal shavings, grease, and sludge from the former installation.

Jobs to be done before commissioning for the first time:

1. Ensure that the boiler is switched off
2. Remove the casings on the inspection side
3. Open the main gas valve
4. Check the electrical connections, particularly the earth
5. Fill the boiler and the installation with water (minimum pressure 1.0 bar)
6. Bleed the heating installation
7. Fill the siphon with water
8. Check the connection of the combusted gas evacuation and the air inlet
9. Empty the gas inlet
10. Open the gas valve on the gas pipe to the boiler
11. Check the admission pressure of the gas PI
12. Check whether the gas connection is leak proof
13. Activate the electricity supply to the boiler
14. Activate the boiler ON switch
15. Operate the circulation pump and check the assembly position and the rotation direction
16. Set the boiler regulation according to the heating request
17. The boiler starts to operate

You can monitor operation in the menu **#TEST INPUTS**, parameter **SEQ**:

a. Check the setting of the gas/air ratio and, if necessary, correct it. The check is carried out at high and low speed, while setting takes place only on the gas multiblock. For checking and setting, you will need an electronic CO_2 meter on the basis of O_2)) and a gas manometer.Be sure correctly to close the opening around the sensor when making the measurement. Connect the gas manometer between the measuring point PG under the gas multiblock and the measurement point PL on the venturi.

b. Run the boiler at high speed (forced "high speed" mode) by pressing keys ▶☼ and ▶☾ simultaneously for 2 seconds. **TEST EMISSION** appears on the display with .

c. After reaching minimum output, measure the gas value ΔP at the measurement point PG under the gas block and the measurement point PL on the venturi and compare the results with the values in the table below. Divergent values must be corrected using the setting screw on the gas multiblock.

d. Then measure the CO_2 percentage and compare it with the value in the table. If the values exceed the limits shown, correct them according to the drawing below.
Check the flame via the flame inspection window. It must not go out.

e. Run the boiler at low speed (forced "low speed" mode) by pressing keys ▶☼ and ▶☾ simultaneously for 2 seconds then on -. **TEST EMISSION** appears on the display with .

f. After reaching minimum output, measure the gas value ΔP at the measurement point PG under the gas block and the measurement point PL on the venturi and compare the results with the values in the table below. Divergent values must be corrected using the setting screw on the gas multiblock.

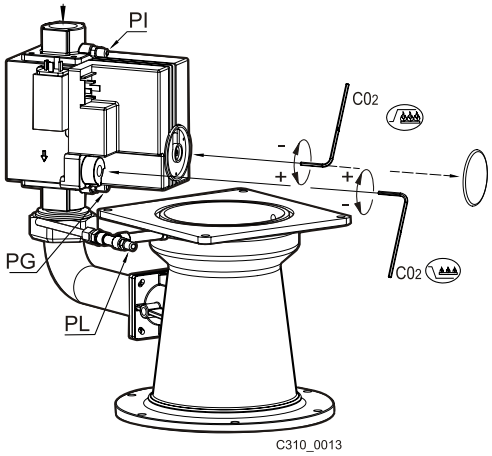
g. Then measure the CO_2 percentage and compare it with the value in the table. If the values exceed the limits shown, correct them according to the drawing below.
Check the flame via the flame inspection window. It must not go out.

Repeat the steps as of step e until the measurements match the values in the table.

If you do not manage to correct the differences, contact our after sales service.

h. Remove the measuring device and close the measurement points.

18. Check the gas seal control and the minimum gas pressure pressure switch (if need be)



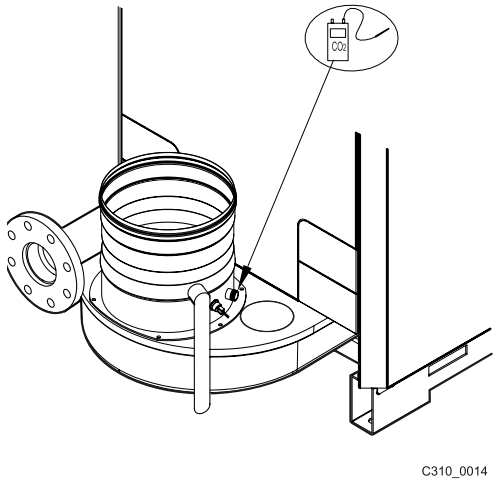


Table of CO_2 - O_2 values

	Natural gas H/E (G20)		Natural gas L/LL (G25)	
	High speed (100%)	Low speed (±20%)	High speed (100%)	Low speed (±20%)
Indicative CO_2 value	9,0%	9,0%	9,0%	9,0%
Adjust to	±0,5%	±0,5%	±0,5%	±0,5%
Set to	9,0 ± 0,15%	9,0 ± 0,15%	9,0 ± 0,15%	9,0 ± 0,15%
Indicative O_2 value	4,8%	4,8%	4,8%	4,8%
Adjust to	±0,5%	±0,5%	±0,5%	±0,5%
Set to	4,8 ± 0,25%	4,8 ± 0,25%	4,8 ± 0,25%	4,8 ± 0,25%
ΔP C310-280 (Pa)	1300 ± 100	60 ± 10	1150 ± 100	45 ± 10
ΔP C310-350	1020 ± 100	42 ± 10	840 ± 100	32 ± 10
ΔP C310-430	900 ± 10	50 ± 10	750 ± 100	40 ± 10
ΔP C310-500	1350 ± 100	65 ± 10	1200 ± 100	50 ± 10
ΔP C310-570	1650 ± 100	85 ± 10	1500 ± 100	70 ± 10

Set the parameter to a value greater than or equal to 8, depending on the options connected.

Then set the gas seal control pressure switch to a trigger pressure equivalent to 50% of the admission pressure. Do not forget that the admission pressure measured does not affect the closing pressure (higher).

19. Press the **Reset** key to return the boiler to "user level"

20. Heat the installation to around 80°C and then stop the boiler

21. Bleed the heating installation and Checking the hydraulic pressure

22. The boiler is now operational

23. Set the boiler regulation to the desired values

24. Switch the boiler on and fill in the label "Set to"

i Each individual boiler is delivered with the following fixed factory settings:

Burner regulation	- Modulating, depending on the outlet temperature
Flow temperature	- 90°C

5 Checking and maintenance

The boiler is almost maintenance-free if it is set correctly.

Make the following checks at least 1 time a year:

- Checking the combustion in the boiler
- Checking the heat exchanger
- Checking condensates discharge.
- Checking the ignition electrode
- Checking for leaks (water, combusted gas, gas)
- Checking the hydraulic pressure
- Checking the air inlet circuit

Carry out the following maintenance at least *1 time a year:

- Cleaning the condensates collector
- Cleaning the siphon.

6 Troubleshooting

6.1 Identification plate

Before informing the fitter of a fault, make a note of the following information:

Type of gas used

① Boiler type

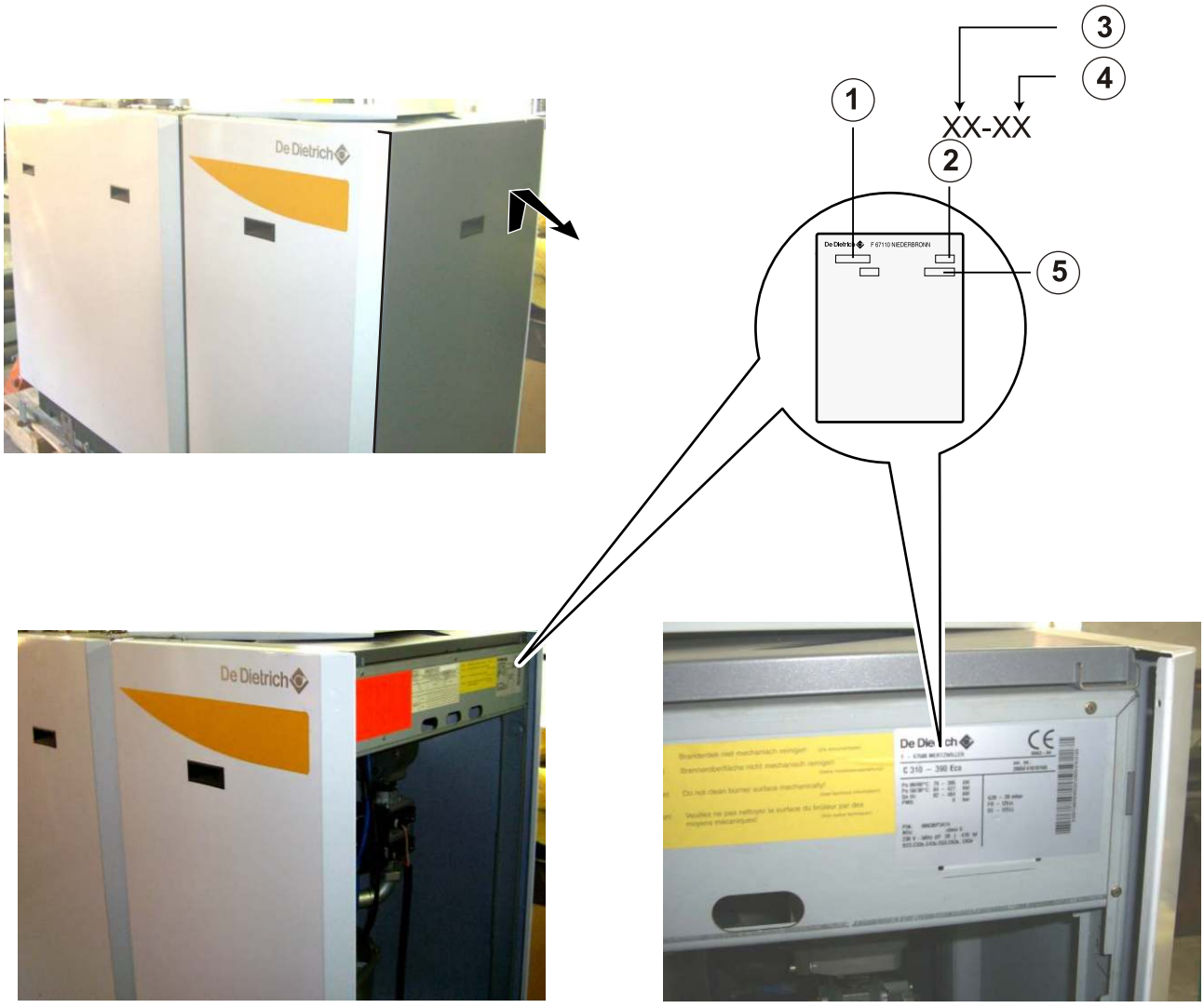
② Date of manufacture

③ Year (01 = 2001, 02 = 2002, ...)

④ Week

⑤ Serial no. of the appliance

i This information can be found on the rating plate stuck to the front plate of the boiler.



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6.2 Error messages

6.2.1 Faults

In the event of a fault, the display may show the following messages.
Contact your fitter.

Message	Probable causes	Solution
24V SHORT-CIRC.	Short circuit 24V	Check the wiring
BURNER FAILURE	Igniter fault	Check the ignition electrode (spacing of the electrodes), its connector and its connection cable. Replace if necessary.
	Ionisation error	Check the earth, Check the ionisation current, If necessary rectify the level of CO_2
	Faulty gas valve	Replace the gas valve
	No gas or presence of air in the pipe	Measure the gas supply pressure. Bleed the gas circuit
I-CURRENT FAIL	Ionisation fault during operation	Check the earth, Check the ionisation current, If necessary rectify the level of CO_2
MCBA FAILURE 5	External influences	Check the wiring
MCBA FAILURE 8	Air pressostat open	Check: - if the flue gas / combustive air duct is not blocked (i.e. siphon) - if the air pressure switch and the connection are blocked
MCBA FAILURE 11	Internal fault	- Check that multi-wire connections are undamaged - Presence of humidity in the control panel - Eliminate electro-magnetic influences
MCBA FAILURE 12	Bridge open	- Check the bridge between terminals X4-3 and X4-12 on the MCBA - Fuse F2 faulty in the control p.c.b
MCBA FAILURE 30	T maxi exceeded	Check the water flow
MCBA FAILURE 61	Air pressostat closed	Check: - If Faulty air pressostat - If the wiring to the air pressure switch is in order - If the thermal draught is too great
MCBA FAILURE 89	Detection of gas leak V1	The gas sealing control (optional) has detected a leak. Check whether there is a leak in the gas valve; otherwise replace the valve.
MCBA FAILURE 90	Detection of gas leak V2	The gas sealing control (optional) has detected a leak. Check whether there is a leak in the gas valve; otherwise replace the valve.
MCBA FAILURE XX	Internal safety control box fault	Reset the boiler. Replace the command and safety box.
MCBA.COM.FAULT	Communication error between DIEMATIC and safety control box	Check the link and the connections between DIEMATIC and safety control box
ROOM S.A FAIL. **ROOM S.B FAIL.** **ROOM S.C FAIL.** **EXCHAN.S.FAIL.** **OUTL S.B FAIL.** **OUTL S.C FAIL.** **OUTSI. S.FAIL.** **SWIM.P. S.FAIL**	Fault in the corresponding sensor	Check the link and the connectors. Replace the sensor if necessary. To erase the message, briefly cut off the power to the boiler using the On/Off switch. Advise the installer. However, you can operate in manual mode on the part of the installation concerned. See comments below.
FAN OFF FAIL	The fan is not working	- Faulty fan - Check the fan wiring (corrosion of the connection) - Command and safety box faulty
FAN ON FAIL	The fan is working constantly	- Electrical connections broken - Faulty fan control (replace the fan)

Message	Probable causes	Solution
BOILER S.FAIL.	Faulty boiler sensor	Check the link and the connectors. Replace the sensor if necessary. Reset the boiler.
DHW S. FAILURE	Faulty domestic hot water sensor	Check the link and the connectors. Replace the sensor if necessary.
SMOKE S. FAIL.	Faulty flue gas sensor	Check the link and the connectors. Replace the sensor if necessary. Reset the boiler
BACK S.FAILURE	Faulty return sensor	Check the link and the connectors. Replace the sensor if necessary. Reset the boiler
VALVE FAIL	Combined gas valve unit faulty	The safety control box does not signal a gas valve. Check: - The wiring of the gas valve - A possible fault in the gas valve (faulty coil) - Check the wiring. Check that the fuses are in good working condition.
PARASIT FLAME	Detection of a parasite flame	Check the tightness of the gas circuit. Check the ignition electrode spacing. Check that the surface of the burner does not have any fibre residues.
REARM CVI	Control error	Reset the boiler
STB BOILER	Flow temperature > maximum	Check the wiring. Bleed the boiler. Check the boiler pump. Check the hydraulic circuit on the installation.
STB EXCHANGE	Exchanger temperature too high	Check the wiring. Bleed the boiler. Check the boiler pump. Check the hydraulic circuit on the installation.
STB SMOKE	Flue gas temperature too high	Heat exchanger fouled
STB BALK	Return temperature too high	Check the wiring. Bleed the boiler. Check the boiler pump. Check the hydraulic circuit on the installation.

For other codes not listed here

- Cut the power supply to the boiler.
- Reset the boiler.
- Change the safety control box if the message persists.

- **ROOM S.A FAIL., ROOM S.B FAIL., ROOM S.C FAIL.**

Automatic operating without room temperature influence.

- **OUTL S.B FAIL., OUTL S.C FAIL.**

The circuit concerned goes from automatic to manual mode. The pump turns and the valve is no longer supplied. It may be manually operated if necessary.

- **DHW S. FAILURE**

Heating of domestic hot water is no longer ensured. The load temperature of the dhw tank is the same as the boiler.

- **OUTSI. S.FAIL.**

The boiler operates on **BOILER MAX** temperature. The regulation of the 3-way valve on circuits B or C (if present) is no longer handled. Nonetheless, the limitation of the maximum temperature is guaranteed and the valve can be operated manually if necessary.

Reheating the domestic hot water remains ensured.

i The 10 latest faults appearing on the display are memorised in the paragraph **#HISTORY D.**.

6.2.2 (Temporary) blockage

Message	Probable causes	Solution
BL. AIR	Air supply insufficient during pre-ventilation. A safety lockdown occurs after 5 starts.	- if the flue gas / combustive air duct is not blocked (i.e. siphon) - if the air pressure switch and the connection are blocked
BL.RET.HIGH.BOI	Return temperature > Flow temperature for 10 minutes minimum, after boiler operating at lower stage	Connection or outlet and return sensor reversed
BL.SPEED	The maximum temperature increase speed tolerated in the exchanger has been exceeded. The boiler is blocked for 10 minutes. After 5 successive attempts during a single heating request, the repeated cut-offs will be saved (the blockage code and the boiler situation at the time of the blockage).	- Pump - Water flow - Hydraulic pressure
BLOCKING b26		Check the bridge between terminals X4-8 and X4-3 in the box
BL.DT BOI BACK	he maximum difference tolerated between the outlet and return temperatures has been exceeded. The boiler is blocked for 150 seconds. After 20 successive attempts during a single heating request, the repeated cut-offs will be saved (the blockage code and the boiler situation at the time of the blockage). However, the boiler does not break down and continues to operate.	- Pump - Water flow - Hydraulic pressure
BL.INT.MCBA	The setting of the parameters is incorrect or the memory is faulty.	- Configuration of the communication robot
BL.SMOKE	Flue gas temperature > Flue gas temperature maximum. Trigger 150 seconds.	- Boiler setting - Fouling
BL.CS OPEN	Blockage input on the CS bridge terminals, is open, or absence of a bridge.	- External safety and bridge
BL.DT BOI.EXC.	If ΔT between boiler temperature and exchanger temperature > 5°C Trigger 10 Min. seconds. After 5 successive attempts during a single heating request, the repeated cut-offs will be saved (the blockage code and the boiler situation at the time of the blockage). The boiler will not be locked down.	- Pump - Water flow
BLOCKING bXX	The control box is off.	Check the wiring Reset the boiler

i The blockage mode is a normal operating mode and therefore does not indicate a breakdown but a normal boiler operating status. A blockage code is likely to signal a technical problem in the installation or an incorrect setting.

7 Technical characteristics

7.1 C 310 ECO

C 310-... ECO		Unit	280	350	430	500	570
Introduction							
Number of sections			5	6	7	8	9
Regulating the output					Modulating		
Output (80/60°C) PN	minimum	kW	51	65	79	92	106
	maximum	kW	261	327	395	462	531
Output (50/30°C) PN	minimum	kW	56	71	84	98	113
	maximum	kW	282	353	427	499	573
Power input	minimum	kW	54	68	82	95	109
	maximum	kW	269	336	404	471	539
Combustion gas and by-products							
Gas supply pressure		mbar			17 - 25		
Gas flow rate Gas H/E (15°C - 1013 mbar)	minimum	m^3/h	5,7	7,2	8,7	10,1	11,5
	maximum	m^3/h	28,5	35,5	42,7	49,8	57,0
Gas flow rate Gas L/LL(15°C - 1013 mbar)	minimum	m^3/h	6,6	8,4	10,1	11,7	13,4
	maximum	m^3/h	33,1	41,3	49,7	57,9	66,3
Average nitrogen oxide emission (NOx)		mg/kWh			< 60		
Maximum pressure at the flue gas nozzle		Pa	150	150	150	150	150
Combusted gas flow	minimum	Kg/h	91	114	138	160	183
	maximum	Kg/h	453	565	680	793	907
Temperatures of the combusted gases at 80/60°C	minimum	°C			57		
	maximum	°C			65		
Boiler types:					B23, C33, C53, C63, C83		
Heating							
Safety temperature		°C			110		
Water setting range		°C			20 - 90		
Water pressure minimum		bar			0,8		
Water pressure maximum		bar			6		
Water content		l	49	60	71	82	93
Water resistance at ΔT = 10°C		mmCE	4520	4400	4800	4400	5000
Water resistance at ΔT = 20°C		mmCE	1130	1100	1200	1100	1250
Electricity characteristics							
Power supply voltage		V/Hz			230 / 50		
Power consumption	minimum	W	12	12	12	12	12
	maximum	W	303	340	470	600	858
Insulation class		IP			21		
Miscellaneous							
Weight without water		kg	360	410	460	510	560
Acoustic level at 1 meter		dBA			60		

7.2 C 610 ECO

C 610-... ECO		Unit	700	860	1000	1140
Introduction						
Number of sections			2 x 6	2 x 7	2 x 8	2 x 9
Regulating the output				Modulating		
Output (80/60°C) PN	minimum	kW	87	123	122	148
	maximum	kW	654	790	924	1062
Output (50/30°C) PN	minimum	kW	94	131	130	156
	maximum	kW	706	854	998	1146
Nominal output (Hi)	minimum	kW	91	128	127	153
	maximum	kW	672	808	942	1078
Combustion gas and by-products						
Gas category				(see table in "General Description" chapter)		
Gas supply pressure		mbar		17 - 25		
Gas flow rate Gas H/E (15°C - 1013 mbar)	minimum	m^3/h	9.6	13.5	13.4	16.2
	maximum	m^3/h	70	85.4	99.6	114
Gas flow rate Gas L/LL(15°C - 1013 mbar)	minimum	m^3/h	11.2	15.8	15.6	18.8
	maximum	m^3/h	82.6	99.4	115.8	132.6
Average nitrogen oxide emission (NOx)		mg/kWh		< 60		
Maximum pressure at the flue gas nozzle		Pa		130		
Combusted gas flow	minimum	kg/h	153	215	214	257
	maximum	kg/h	1130	1360	1586	1814
Temperatures of the combusted gases at 80/60°C	minimum	°C		57		
	maximum	°C		65		
Boiler types:				B23, C33, C53, C63, C83		
Heating						
Safety temperature		°C		110		
Water setting range		°C		20 - 90		
Water pressure minimum		bar		0,8		
Water pressure maximum		bar		6		
Water content		l	120	142	164	186
Water resistance at ΔT = 10°C		mmCE	4400	4800	4400	5000
Water resistance at ΔT = 20°C		mmCE	1100	1200	1100	1250
Electricity characteristics						
Power supply voltage		V/Hz		230 / 50		
Power consumption	minimum	W		12		
	maximum	W	694	980	1240	1684
Insulation class		IP		21		
Miscellaneous						
Weight without water		kg	820	920	1020	1120
Acoustic level at 1 meter		dBA		63		

8 Energy savings

Here are a few tips for saving energy:

- Install reflector panels behind the radiators.
- Do not cover the radiators. Do not hang curtains in front of the radiators.
- Insulate pipes to prevent thermal losses and condensation.
- Do not obstruct aeration grates (even partially). They help to reduce humidity in the home. The more humid a home, the more heating it consumes.
- Turn heating off when airing a room (5 minutes a day is sufficient) Avoid deregulating the thermostat. Place the start/stop switch on Off.
- Do not shut down heating completely if you are absent. Lower the thermostat by 3-4°C.
- Use the sun's heat as much as possible.
- Take showers rather than baths. Use a water-saving shower head.

Warranty

You have just purchased one of our appliances and we thank you for the trust you have placed in our products.

Please note that your appliance will provide good service for a longer period of time if it is regularly checked and maintained.

Your fitter and our customer support network are at your disposal at all times.

Warranty terms

Starting from the purchase date shown on the original fitter's invoice, your appliance has a contractual guarantee against any manufacturing defect.

The length of the guarantee is mentioned in the price catalogue.

The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified fitter).

In particular, the manufacturer shall not be held responsible for any damage, loss or injury caused by installations which do not comply with the following:

- applicable local laws and regulations
- specific requirements relating to the installation, such as national and/or local regulations
- the manufacturer's instructions, in particular those relating to the regular maintenance of the unit
- the rules of the profession

The warranty is limited to the exchange or repair of such parts as have been recognised to be faulty by our technical department and does not cover labour, travel and carriage costs.

The warranty shall not apply to the replacement or repair of parts damaged by normal wear and tear, negligence, repairs by unqualified parties, faulty or insufficient monitoring and maintenance, faulty power supply or the use of unsuitable fuel.

Sub-assemblies such as motors, pumps, electric valves etc. are guaranteed only if they have never been dismantled.

France

The preceding dispositions are not exclusive of benefits for the purchaser of the legal guarantee as stated in Civil Code articles 1641 to 1648.

Belgium

The preceding dispositions about the contractual guarantee are not exclusive of profit if the need arises for the purchaser in Belgium of the applicable legal dispositions on hidden defects.

Switzerland

The application of the warranty is subject to the terms and conditions of sale, delivery and warranty of the company marketing our products.

Other countries

The above provisions do not restrict the benefit of the legal laws regarding hidden defects applicable in the buyer's country.

DE DIETRICH THERMIQUE S.A.S.

www.dedietrich-thermique.fr

Direction des Ventes France
57, rue de la Gare
F- 67580 MERTZWILLER
+33 (0)3 88 80 27 00
+33 (0)3 88 80 27 99

De Dietrich info service
N° Indigo 0 825 120 520
0,15 € TTC/MN

DE DIETRICH HEIZTECHNIK

www.dedietrich-heiztechnik.de

Rheiner Strasse 151
D- 48282 EMSDETTEN
+49 (0)25 72 / 23-5
+49 (0)25 72 / 23-102
info@dedietrich.de

NEUBERG S.A.

www.dedietrich-heating.com

39 rue Jacques Stas
L- 2010 LUXEMBOURG
+352 (0)2 401 401

VAN MARCKE

www.vanmarcke.be

Weggevoerdenlaan 5
B- 8500 KORTRIJK
+32 (0)56/23 75 11

DE DIETRICH

www.dedietrich-otoplenie.ru

8 Gilyarovskogo Str. 7
R- 129090 MOSCOW
+7 495.974.16.03
+7 495.974.66.08
dedietrich@nnt.ru

VESCAL S.A.

www.chauffer.ch / www.heizen.ch

Z.I de la Veyre, St-Légier
1800 VEVEY 1
+41 (0)21 943 02 22
+41 (0)21 943 02 33

DE DIETRICH

www.dedietrich-heating.com

Room 512, Tower A, Kelun Building
12A Guanghua Rd, Chaoyang District
C-100020 BEIJING
+86 (0)106.581.4017
+86 (0)106.581.4018
+86 (0)106.581.7056
+86 (0)106.581.4019
contactBJ@dedietrich.com.cn

DE DIETRICH HEIZTECHNIK

www.dedietrich-heiztechnik.de

Am Concorde Park 1 - B 4 / 28
A-2320 SCHWECHAT / WIEN
+43 (0)1 / 706 40 60-0
+43 (0)1 / 706 40 60-99
office@dedietrich.at

CE
0085

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Subject to alterations.

02 october 2007

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De Dietrich

DE DIETRICH THERMIQUE
57, rue de la Gare F- 67580 MERTZWILLER - BP 30